

Serial No. 09/713,843

P. Berg et al.

Supplemental Response and Request for Reconsideration

LISTING OF CLAIMS

This listing of claims will replace all prior versions and listings of claims in this application. Changes are indicated in the left margin with a vertical change bar.

Deletions are marked by ~~striketrough~~; insertions are underlined.

1. (Currently amended) A method of processing user criteria to retrieve a portion of data and display it to the user, the method comprising:
 - receiving user criteria that specifies a subset of the data with respect to multiple data criteria;
 - retrieving the data subset from the data; and
 - displaying the data subset in a display defined by a two-dimensional field array of information, wherein the field array of the display is divided into a plurality of two-dimensional bounded field areas, each of which has a display area that is indicative of a first data criteria of the data subset, and wherein the area of each bounded field area is further divided into subfield areas, each of which has an area that is indicative of a second data criteria of the data subset; and
 - displaying a subfield detail window adjacent to one of the subfield areas in response to moving a display cursor over a boundary of the bounded subfield area to show data relating to the bounded subfield area, and displaying a menu window adjacent to the bounded subfield area in response to a mouse click on the bounded subfield area such that the menu window shows information relating to the bounded subfield area data subset and can receive user criteria from the user to specify additional information relating to the bounded subfield area change an attribute with which the bounded subfield area is associated and reconfigure the display window in accordance with the changed attribute.
2. (Original) A method as defined in claim 1, wherein the menu array window specifies information relating to the bounded subfield area.

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3. (Original) A method as defined in claim 1, wherein the subfield detail window remains in display as long as a display cursor is located over the subfield area.

4. (Original) A method as defined in claim 1, wherein the menu array window includes one or more hyperlinks for an offering represented by the bounded sublevel area.

5. (Original) A method as defined in claim 1, wherein each subfield area includes an attribute that is indicative of a third data criteria of the data subset.

6. (Original) A method as defined in claim 5, wherein the attribute of the subfield display areas is screen color, such that screen color indicates the magnitude of the third data criteria.

7. (Currently amended) A method of presenting information regarding plural products on a computer display screen for perusal and selection by a user, the method comprising:

displaying a product review page on the display screen, the product review page comprising one or more two-dimensional, bounded field areas, each bounded field area corresponding to a particular product category, wherein one or more of the bounded field areas is divided into plural bounded subfield areas, each of the bounded subfield areas corresponding to and representing a product, and wherein each bounded subfield area has a first attribute that is indicative of a first characteristic of the corresponding product;

displaying a menu box that provides the user with the ability to insert any product corresponding to a subfield area into an electronic shopping cart;

providing the user with the ability to perform a single action to initiate a purchase transaction of all of the items in the shopping cart;

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receiving user criteria from the user to specify a changed attribute with which a bounded subfield area is associated and reconfiguring the displayed subfield area according to the received user criteria.

8. (Original) A method as defined in claim 7, wherein all of the bounded field areas and subfield areas of the product review page are simultaneously contained within a single viewable region of the computer display screen.

9. (Original) A method as defined in claim 7, wherein the first attribute of the bounded subfield area comprises a two-dimensional size of the bounded subfield area.

10. (Original) A method as defined in claim 7, wherein the first attribute of the bounded subfield area comprises a screen color of the bounded subfield area.

11. (Original) A method as defined in claim 7, wherein the bounded subfield area has a second attribute that is indicative of a second characteristic of the corresponding product.

12. (Original) A method as defined in claim 11, wherein the first attribute of the bounded subfield area comprises the size of the bounded subfield area and the second attribute of the bounded subfield area comprises the color of the bounded subfield area.

13. (Original) A method as defined in claim 7, wherein subfield areas that represent a particular product having a first characteristic are grouped together with subfield areas that represent products that have a characteristic similar to the first characteristic.

14. (Original) A method as defined in claim 7, wherein the first visible attribute of the subfield areas is indicative of the price of the corresponding product.

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15. (Original) A method as defined in claim 7, additionally comprising displaying a field detail window adjacent to one of the bounded subfield areas in response to moving a display cursor over a boundary of the bounded subfield areas to show data relating to the product corresponding to the bounded subfield area.

16. (Original) A method as defined in claim 7, additionally comprising displaying a menu box adjacent to a bounded subfield area in response to a mouse click on the bounded subfield area, wherein the menu box includes menu items that may be selected for accessing information related to one or more of the products.

17. (Original) A method as defined in claim 7, wherein each subfield area represents a coffee product that is available for purchase and wherein subfield areas that represent coffee products of a common type are grouped within a common field area.

18. (Original) A method as defined in claim 17, wherein the first attribute of each subfield area is the two-dimensional screen size of the subfield area and wherein the two dimensional size of each subfield area is indicative of a purchase price of the product represented by the subfield area.

19. (Currently amended) A device for displaying information on a computer display screen for perusal and selection by a user, the information being related to plural data elements, each data element belonging to a data category and being defined by one or more dimensions of a given magnitude, the device comprising:

one or more bounded field areas on the display screen, each bounded field area corresponding to a particular data category, wherein each bounded field area is divided into one or more bounded subfield areas, each bounded subfield area corresponding to and representing a particular data element, wherein each of the bounded subfield areas

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has a first attribute that is indicative of a first dimension of the corresponding data element, and wherein all of the bounded field areas and subfield areas are simultaneously viewable within a single viewable region of the computer display screen;

a field detail window on the computer display screen located adjacent to one of the bounded subfield areas in response to a display cursor being located over a boundary of the bounded subfield area, the field detail window showing the magnitude of one or more dimensions of the data element corresponding to the bounded subfield area;

a menu array window on the computer display screen adjacent one of the bounded sublevel areas, the menu array window appearing in response to a mouse click on a bounded subfield area, the menu array window including an option to insert the data element corresponding to the bounded subfield area into a shopping cart;

a button item on the computer display screen by which the data elements in the shopping cart may be accepted by the user;

wherein the device receives user criteria from the user to specify changed data criteria relating to an attribute with which a bounded subfield area is associated and changes the displayed subfield area according to the received user criteria.

20. (Original) The device as defined in claim 19, wherein each of the bounded subfield areas has a second attribute that is indicative of a second dimension of the corresponding data element.

21. (Original) The device as defined in claim 19, wherein the first attribute of each of the bounded subfield area is a two-dimensional size of the bounded subfield area.

22. (Original) The device as defined in claim 20, wherein the second attribute of each of the bounded subfield area is a screen color of the bounded subfield area.

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23. (Original) The device as defined in claim 19, wherein the data elements are descriptive of products that are available for purchase.

24. (Original) The device as defined in claim 23, wherein the data elements are stored in a data store that is local to the computer device.

25. (Original) The device as defined in claim 19, wherein each data element corresponds to a product that is available for purchase and wherein the dimensions of a data element include the price of the corresponding product.

26. (Original) The device as defined in claim 19, wherein the menu array window provides the option to accept criteria by which the user can cause the computer to revise the attributes of the bounded subfield areas to be indicative of a different set of dimensions of the subfields within a particular data category.

27. (Original) The device as defined in claim 19, wherein the menu array window provides the option to accept criteria by which the user can cause the computer to display only data elements having a dimension within a given value range.

28. (Previously Amended) The device as defined in claim 19, wherein the data elements describe products that are available for purchase and wherein the button item allows the user to initiate a purchase transaction with respect to any data elements in the shopping cart.

29. (Currently amended) A computer device having an internal memory containing computer readable code comprised of a set of instructions that will cause the computer device to execute the following functions:

accept user criteria for obtaining a subset of data related to products that are available for purchase;

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retrieve a data subset that meets the user criteria, the data subset comprised of one or more data elements, each data element being related to one or more products, and;

generate a tree map display that is representative of the data subset, wherein the tree map display comprises:

plural bounded field areas, each bounded field area corresponding to a product category, wherein one or more of the bounded field areas is divided into plural bounded subfield areas, each of the bounded subfield areas corresponding to and representing a product, and wherein each bounded subfield area has a first visible attribute that is indicative of a first characteristic of the corresponding product, wherein the plural bounded field areas and the bounded subfield areas are all contained within a single viewable region of a computer display screen;

a menu item that provides the user with the ability to insert any product corresponding to a subfield area into an electronic shopping cart;

a shopping cart item that provides a tally of any products that have been inserted into the shopping cart;

a selectable item that initiates a purchase transaction of all of the items in the shopping cart;

wherein the computer device further will receive user criteria from the user to specify changed data criteria relating to an attribute with which a bounded subfield area is associated and changing the displayed subfield area according to the received user criteria.

30. (Original) The computer device of claim.29, wherein the tree map display additionally comprises a field detail window on the computer display screen located adjacent to one of the bounded subfield areas in response to a display cursor being located over a boundary of the bounded subfield area, the field detail window including information related to the product that corresponds the subfield area upon which the display cursor is located.

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31. (Original) The computer device of claim 29, wherein the first visible attribute of each of the bounded subfield areas is the screen size of the bounded subfield area.

32. (Original) The computer device of claim 29, wherein each bounded subfield area has a second visible attribute that is indicative of a second characteristic of the corresponding product.

33. (Original) The computer device of claim 32, wherein the second visible attribute comprises the screen color of the subfield area.

34. (Currently amended) A method of processing user criteria to retrieve a portion of data and display it to the user, the method comprising:
receiving user criteria that specifies a subset of the data with respect to multiple data criteria;
retrieving the data subset from the data; and
displaying the data subset in a display defined by a two-dimensional field array of information, wherein the field array of the display is divided into a plurality of two-dimensional bounded field areas, each of which has a display area that is indicative of a first data criteria of the data subset, and wherein the area of each bounded field area is further divided into two-dimensional subfield areas, each of which has an area that is indicative of a second data criteria of the data subset;
displaying a subfield detail window adjacent to one of the subfield areas in response to moving a display cursor over a boundary of the bounded subfield area to show data relating to the bounded subfield area, and displaying a menu window adjacent to the bounded subfield area in response to a mouse click on the bounded subfield area such that the menu window shows information relating to the bounded subfield area data subset;

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receiving user criteria from the user to specify changed second data criteria relating to an attribute with which the bounded subfield area is associated; and changing one of the displayed subfield areas according to the received user criteria.

35. (Previously presented) A method as defined in Claim 34, wherein changing one of the displayed subfield areas comprises changing a data grouping of the data elements in accordance with the changed second data criteria.

36. (Previously presented) A method as defined in Claim 35, wherein the received user criteria changes the display dimensions of the changed displayed subfield area in accordance with the changed second data criteria.

37. (Previously presented) A method as defined in Claim 35, wherein the received user criteria changes the display color of the changed displayed subfield area in accordance with the changed second data criteria.

38. (Previously presented) A method as defined in Claim 35, wherein the received user criteria applies a filter that changes the data elements that comprise the displayed subfield area according to the changed second data criteria.

39. (Currently amended) A computer device that displays information related to plural data elements, the device comprising:

a display screen on which the device displays one or more two-dimensional bounded field areas, each bounded field area corresponding to a display area that is indicative of a first data criteria of a subset of the data elements, and each bounded field area is divided into one or more bounded subfield areas, the area of each bounded subfield area corresponding to and indicative of a second data criteria of the data

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subset, wherein the second data criteria is indicative of a data grouping of the data subset of the data elements; and

input means for receiving user criteria from the user to specify changed second data criteria relating to an attribute with which the bounded subfield area is associated and changing one of the displayed subfield areas according to the received user criteria.

40. (Previously presented) A computer device as defined in Claim 39, wherein the input means comprises a user input to which the device responds by changing the data grouping of the data subset in accordance with the changed second data criteria.

41. (Previously presented) A computer device as defined in Claim 40, wherein the received user criteria changes the display dimensions of the changed displayed subfield area in accordance with the changed second data criteria.

42. (Previously presented) A computer device as defined in Claim 40, wherein the received user criteria changes the display color of the changed displayed subfield area in accordance with the changed second data criteria.

43. (Previously presented) A computer device as defined in Claim 40, wherein the received user criteria applies a filter that changes the data elements that comprise the displayed subfield area according to the changed second data criteria.

44. (Previously presented) A computer device as defined in Claim 39, further including:

display means for displaying descriptive information regarding a field area such that the descriptive information is displayed in an area proximal to the field area.

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45. (Previously presented) A method as defined in claim 1, further including:
displaying a descriptive information window in an area proximal to a field area
such that the descriptive information window includes descriptive information regarding
the field area.

46. (Previously presented) A method as defined in claim 7, further including:
displaying a descriptive information window in an area proximal to a field area
such that the descriptive information window includes descriptive information regarding
the field area.

47. (Previously presented) A device as defined in claim 19, further including a
descriptive information window displayed in an area proximal to a field area such that
the descriptive information window includes descriptive information regarding the field
area.

48. (Previously presented) The computer device of claim 29, wherein the tree
map display includes a descriptive information window that is displayed in an area
proximal to a field area such that the descriptive information window includes
descriptive information regarding the field area.

49. (Currently amended) A method of processing user data search criteria to
retrieve data from a database for computer display, the method comprising:

receiving data search criteria entered by a user into a search criteria window of
the computer display;

receiving a user input to begin retrieval of data elements that match the data
search criteria; and

providing a display of the retrieved data elements in a computer display window
comprising a tree map display;

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wherein the tree map display comprises a display area that includes one or more two-dimensional bounded field areas, each bounded field area corresponding to a display area that is indicative of a first data criteria of a subset of the data elements, and each bounded field area is divided into one or more bounded subfield areas, the area of each bounded subfield area corresponding to and indicative of a second data criteria of the data subset.

further comprising receiving user criteria from the user to specify a changed attribute with which the bounded subfield area is associated and reconfiguring one of the displayed subfield areas according to the received user criteria.

50. (Canceled) A method as defined in claim 49, wherein the tree map display comprises a display area that includes one or more two-dimensional bounded field areas, each bounded field area corresponding to a display area that is indicative of a first data criteria of a subset of the data elements, and each bounded field area is divided into one or more bounded subfield areas, the area of each bounded subfield area corresponding to and indicative of a second data criteria of the data subset, wherein the second data criteria is indicative of a data grouping of the data subset of the data elements.

51. (Currently amended) A method as defined in claim ~~50~~ 49, further including:

receiving user criteria from the user to specify changed second data criteria relating to the bounded subfield area and changing one of the displayed subfield areas according to the received user criteria.

52. (Previously presented) A method as defined in claim 51, wherein the received user criteria comprises a user input that initiates changing the data grouping of the data subset in accordance with the changed second data criteria.

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53. (Previously presented) A method as defined in claim 51, wherein the received user criteria changes the display dimensions of the changed displayed subfield area in accordance with the changed second data criteria.

54. (Previously presented) A method as defined in claim 51, wherein the received user criteria changes the display color of the changed displayed subfield area in accordance with the changed second data criteria.

55. (Previously presented) A method as defined in claim 51, wherein the received user criteria applies a filter that changes the data elements that comprise the displayed subfield area according to the changed second data criteria.

56. (Previously presented) A method as defined in claim 51, further including: displaying a descriptive information window in an area proximal to a field area such that the descriptive information window includes descriptive information regarding the field area.

57. (New) A method as defined in Claim 1, wherein the changed attribute comprises size.

58. (New) A method as defined in Claim 1, wherein the changed attribute comprises grouping.

59. (New) A method as defined in Claim 1, wherein the changed attribute comprises color.